
Barley Varieties for Montana, USA

Last updated: July 22, 2004 **Corrected**

Montana farmers seeded 1.0 million acres of barley in 2004, down 9 percent from last year. Fifty-three percent of the acres seeded to barley were malting and brewing varieties recommended by the American Malting Barley Association Inc. for use in Montana. The top variety seeded in Montana was Harrington, maintaining its position for the eleventh consecutive year.

MALTING VARIETIES

Harrington remains the top variety planted in the state for the eleventh year in a row. It was seeded on 403.3 thousand acres or 40.3 percent of Montana's barley acreage. Harrington is the most popular variety of barley recommended by the AMBA for planting in Montana. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It matures two to three days earlier than Klages and has better lodging resistance. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

AC Metcalfe joins the top four list this year, bumping out Moravian 37. It came in second place this year, with 49.5 thousand acres planted, which accounts for 5.0 percent of Montana's barley acreage. It is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. It has a 7 percent higher yield and matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It is susceptible to scald and spetoria.

Merit moves up to third place this year, with 44.0 thousand acres seeded, or 4.4 percent of Montana's barley acreage. Merit is a two-rowed, mid-maturing, mid-dense head barley adapted to the West's InterMountain barley producing region. Glume hair is long and confined to a band. Seed is covered, finely wrinkled with wax present and the aleurone is colorless. It is resistant to net blotch and moderately resistant to scald. **B Merit** is a spring barley bred and developed by Busch Agricultural Resources, Inc, and was recommended by the AMBA in 2004 for use in Montana.

B 1202 drops to fourth place this year, after eight consecutive years at number two. It accounts for 38.8 thousand of the barley acres seeded this year, or 3.9 percent of the acreage. It is an AMBA approved, two-rowed spring barley. The spike is lax in density and nodding. The awn on the lemma is long and rough. Rachilla, rachis, and glume hairs are all long. The awns are equal to the length of the hair-covered glume. The hull is adhered and slightly to semi-wrinkled and the aleurone is colorless. **B 1202** is moderately susceptible to net blotch, scald, and stripe rust.

FORAGE VARIETIES

Haybet remains the most popular forage barley for the fifth year in a row, with 99.0 thousand acres seeded, which accounts for 9.9 percent of the total barley acres seeded in Montana for 2004. Haybet, as the name implies, is used primarily for hay. It was developed cooperatively by the Agricultural Research Service, United States Department of Agriculture (USDA), and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and

percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

Westford is the second most popular forage barley for the second year in a row, with 23.2 thousand acres or 2.3 percent of the state barley acres seeded in 2004. It is a 6-row hooded hay barley developed by Western Plant Breeders of Bozeman, Montana. Maturity is considerably later than Horsford and Whitford, allowing for greater forage production. Seed yield is low (similar to Horsford). Hay yields are considerably higher than Horsford. Hooded barleys are sometimes vulnerable to ergot, but the amount is slight.

FEED VARIETIES

Baronesse is the most popular feed barley again in 2004. It represents 3.9 percent of the total acreage or 38.9 thousand acres for feed barley seeded in Montana for 2004. This is down from the 44.7 thousand acres seeded last year. Developed in Germany, it is a two-rowed, rough-awned spring barley. Baronesse is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is highly resistant to lodging and moderately resistant to net blotch.

Gallatin maintains its place as the second most popular feed barley grown for the second year in a row. Statewide, 34.3 thousand acres were seeded, which is 3.4 percent of all barley acreage. Gallatin was developed from the cross of Summit and Hector cooperatively by ARS, USDA, and the Montana and Idaho Agricultural Experiment stations. It is a two-rowed, rough-awned, spring barley.

This Barley Variety Survey was funded by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. Statements concerning variety characteristics are primarily derived from information published by Montana State University and the University of Idaho.

Peggy Stringer, Director
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Barley: 2004 Seeded Acreage and Percent of Total Seeded by Districts 1/														
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	2.4	10.9	299.0	57.5	13.5	11.4	51.0	30.0	14.9	42.6	20.8	23.1	1.7	3.8
Haybet	2.3	10.5	18.7	3.6	32.2	27.3	10.5	6.2	1.6	4.6	10.9	12.1	22.8	50.7
AC	0.0	0.0	42.1	8.1	0.0	0.0	6.8	4.0	0.6	1.7	0.0	0.0	0.0	0.0
Metcalfe	0.0	0.0	38.8	7.5	0.2	0.2	3.1	1.8	1.1	3.1	0.8	0.9	0.0	0.0
Merit*	0.0	0.0	25.7	4.9	2.7	2.3	3.1	1.8	0.0	0.0	7.4	8.2	0.0	0.0
Baronesse	4.6	20.9	9.9	1.9	0.7	0.6	16.5	9.7	5.9	16.9	0.9	1.0	0.3	0.7
B 1202*	1.8	8.2	7.8	1.5	0.4	0.3	17.2	10.1	2.9	8.3	4.1	4.6	0.1	0.2
Gallatin	0.0	0.0	10.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	23.9	0.5	1.1
Moravian 37	0.0	0.0	19.9	3.8	7.4	6.3	0.3	0.2	0.0	0.0	0.0	0.0	0.5	1.1
Legacy*	0.4	1.8	4.7	0.9	6.8	5.8	7.8	4.6	0.0	0.0	3.1	3.4	1.5	3.3
Hector	4.5	20.5	9.9	1.9	3.3	2.8	5.3	3.1	0.1	0.3	0.0	0.0	0.8	1.8
Valier	0.6	2.7	3.1	0.6	2.2	1.9	9.7	5.7	3.2	9.1	3.8	4.2	0.6	1.3
Westford	0.0	0.0	1.6	0.3	8.9	7.5	4.8	2.8	0.0	0.0	1.4	1.6	1.8	4.0
Lewis	0.0	0.0	4.2	0.8	3.9	3.3	2.0	1.2	0.0	0.0	0.5	0.6	3.1	6.9
Bowman	1.0	4.5	0.5	0.1	0.8	0.7	4.3	2.5	0.7	2.0	3.2	3.5	1.6	3.6
Horsford	0.0	0.0	0.0	0.0	9.1	7.7	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Robust*	0.0	0.0	3.6	0.7	0.0	0.0	4.8	2.8	0.0	0.0	0.8	0.9	0.0	0.0
Piroline	0.0	0.0	0.0	0.0	5.9	5.0	3.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
Stark	0.1	0.5	4.7	0.9	0.0	0.0	3.6	2.1	0.0	0.0	0.1	0.1	0.0	0.0

Westbred	0.0	0.0	0.0	0.0	1.1	0.9	3.1	1.8	0.0	0.0	0.0	0.0	3.6	8.0
Xena	4.3	19.5	15.4	3.0	18.9	16.0	12.5	7.5	4.0	11.4	10.7	11.9	6.1	13.5
Conlon*														
Other & Unknown														
All Varieties	22.0	100.0	520.0	100.0	118.0	100.0	170.0	100.0	35.0	100.0	90.0	100.0	45.0	100.0

1/ Columns may not sum to all varieties due to rounding. *Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2004.

Barley: Percent of Total Seeded Acreage 1998-2004 & Seeded Acreage 2003-2004 1/									
Variety	Percent of Total Seeded Acreage							Seeded Acres (000)	
	1998	1999	2000	2001	2002	2003 2/	2004	2003 2/	2004
Harrington*	42.1	49.6	49.9	45.7	47.6	47.1	40.3	518.2	403.3
Haybet	3.0	4.5	6.5	10.2	10.5	9.9	9.9	109.0	99.0
AC Metcalfe	--	--	--	--	--	0.7	5.0	7.4	49.5
Merit*	0.3	1.2	1.6	1.1	2.6	3.8	4.4	41.5	44.0
B 1202*	4.7	5.2	5.4	5.6	5.6	4.9	3.9	53.8	38.9
Baronesse	12.1	7.6	6.2	5.0	3.9	4.1	3.9	44.7	38.8
Gallatin	4.6	4.0	2.2	3.3	1.9	2.9	3.4	31.7	34.3
Moravian 37	--	0.1	1.5	3.8	4.3	3.9	3.2	42.7	32.4
Legacy*	--	--	--	--	0.6	1.0	2.8	10.6	28.1
Hector	6.8	4.9	3.7	2.7	3.1	1.8	2.4	20.1	24.3
Valier	--	--	0.1	0.6	1.1	0.9	2.4	9.5	23.9
Westford	--	0.1	1.2	2.7	3.2	2.3	2.3	24.8	23.2
Lewis	2.1	2.3	1.5	1.5	1.6	1.6	1.9	18.0	18.5
Bowman	3.1	2.7	2.8	2.1	3.0	2.1	1.4	23.3	13.7
Horsford	2.1	1.7	2.4	1.3	1.6	1.7	1.2	19.0	12.1
Robust*	--	--	0.2	0.7	0.4	1.1	1.0	11.9	9.6
Piroline	2.2	1.9	1.1	1.2	1.2	1.3	0.9	14.5	9.2
Stark	0.9	1.9	0.9	0.8	1.1	1.0	0.9	11.5	9.0
Westbred Xena	--	--	--	--	--	0.9	0.8	10.2	8.5
Conlon*	--	--	--	--	--	--	0.8	--	7.8
Other & Unknown	16.0	12.3	12.8	11.7	6.7	7.0	7.2	77.6	71.9
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,100.0	1,000.0

1/ Columns may not sum to all varieties due to rounding. 2/ Revised. *Denotes variety recommended by the American Malting Barley Association for planting in Montana in 2004.

Barley: Seeded Acreage and Percent of Total Seeded by Districts - 2003 1/, 2/													
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)
Harrington*	1.3	6.8	363.4	64.2	29.0	22.0	76.6	37.9	29.6	59.2	14.1	16.8	4.2
Haybet	3.1	16.3	22.1	3.9	32.9	24.9	19.4	9.6	3.9	7.8	6.1	7.3	21.5
B 1202*	0.3	1.6	33.4	5.9	0.0	0.0	6.3	3.1	0.0	0.0	13.8	16.4	0.0
Baronesse	2.5	13.2	15.8	2.8	5.8	4.4	13.9	6.9	4.2	8.4	0.8	1.0	1.7
Moravian 37	0.0	0.0	23.8	4.2	1.6	1.2	0.0	0.0	0.0	0.0	16.5	19.6	0.8
Merit*	0.0	0.0	33.4	5.9	0.0	0.0	6.9	3.4	0.4	0.8	0.8	1.0	0.0
Gallatin	3.0	15.8	14.2	2.5	0.0	0.0	9.3	4.6	1.4	2.8	2.8	3.3	1.0
Westford	0.8	4.2	2.3	0.4	2.6	2.0	13.5	6.7	1.6	3.2	3.2	3.8	0.8
Bowman	0.0	0.0	9.6	1.7	3.6	2.7	6.3	3.1	0.0	0.0	0.8	0.9	3.0
Hector	0.0	0.0	2.3	0.4	3.0	2.3	8.5	4.2	0.3	0.6	2.4	2.9	3.6
Horsford	1.0	5.3	2.3	0.4	5.8	4.4	3.6	1.8	1.5	3.0	2.5	3.0	2.3
Lewis	1.3	6.8	4.5	0.8	7.3	5.5	3.4	1.7	0.0	0.0	0.0	0.0	1.5

Piroline	0.0	0.0	1.7	0.3	0.0	0.0	9.3	4.6	0.6	1.2	2.9	3.5	0.0	
Robust*	0.0	0.0	0.0	0.0	10.3	7.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	
Stark	0.0	0.0	2.3	0.4	7.8	5.9	0.6	0.3	0.0	0.0	0.0	0.0	0.8	
Legacy*	0.0	0.0	2.3	0.4	4.9	3.7	2.4	1.2	0.0	0.0	0.0	0.0	1.0	
Westbred Xena	0.3	1.6	6.2	1.1	0.0	0.0	2.6	1.3	0.0	0.0	1.1	1.3	0.0	
Valier	1.2	6.3	3.4	0.6	2.8	2.1	1.2	0.6	0.0	0.0	0.0	0.0	0.9	
AC Metcalfe	0.0	0.0	7.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Chinook	0.1	0.5	0.0	0.0	0.7	0.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0	
Excel*	0.0	0.0	0.0	0.0	3.6	2.7	0.0	0.0	0.0	0.0	0.2	0.2	0.0	
Other & Unknown	4.1	21.6	15.6	2.8	10.3	7.9	11.8	5.8	6.5	13.0	16.0	19.0	3.9	
All Varieties	19.0	100.0	566.0	100.0	132.0	100.0	202.0	100.0	50.0	100.0	84.0	100.0	47.0	1
1/ Columns may not sum to all varieties due to rounding. 2/ Revised. *Denotes variety recommended by the American Malt Association for planting in Montana in 2003.														

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